



US009636830B2

(12) **United States Patent**
Hodgson et al.

(10) **Patent No.:** **US 9,636,830 B2**

(45) **Date of Patent:** ***May 2, 2017**

(54) **HEATED SHAVING RAZORS**

(71) Applicant: **The Gillette Company**, Boston, MA
(US)

(72) Inventors: **Matthew James Hodgson**, Ramsbury
(GB); **Norbert Broemse**, Bad Homburg
(DE); **Klaus Heubach**, Koenigstein
(DE); **Timo Schmitt**, Hinteriefenbach
(DE); **Maurice Schirmer**, Schwalbach
am Taunus (DE); **Felix Koenig**,
Darmstadt (DE); **Juergen Behrendt**,
Niederbrechen (DE)

(73) Assignee: **The Gillette Company LLC**, Boston,
MA (US)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

This patent is subject to a terminal dis-
claimer.

(21) Appl. No.: **14/552,836**

(22) Filed: **Nov. 25, 2014**

(65) **Prior Publication Data**

US 2015/0197019 A1 Jul. 16, 2015

Related U.S. Application Data

(60) Provisional application No. 61/927,132, filed on Jan.
14, 2014.

(51) **Int. Cl.**

B26B 21/48 (2006.01)

B26B 21/40 (2006.01)

B26B 21/16 (2006.01)

(52) **U.S. Cl.**

CPC **B26B 21/48** (2013.01); **B26B 21/165**
(2013.01); **B26B 21/4056** (2013.01)

(58) **Field of Classification Search**

CPC B26B 21/16; B26B 21/40; B26B 21/48
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,063,808 A 12/1936 Henderson et al.
4,587,968 A * 5/1986 Price A61D 1/06
219/230

(Continued)

FOREIGN PATENT DOCUMENTS

AU 654696 9/1992
CN 101306537 11/1994

(Continued)

OTHER PUBLICATIONS

PCT International Search Report with Written Opinion to corre-
sponding international application PCT/US2015/010962 dated Jun.
16, 2015.

(Continued)

Primary Examiner — Hwei C Payer

(74) *Attorney, Agent, or Firm* — John M. Lipchitz; Kevin
C. Johnson; Steven W. Miller

(57) **ABSTRACT**

A shaving razor cartridge with a housing having a guard, a
cap, and one or more blades located between the guard and
the cap. The guard is positioned in front of the one or more
blades and the cap is positioned behind said one or more
blades. A heat delivering element is mounted to the housing
for transferring heat during a shaving stroke. The heat
delivering element includes a skin contacting surface and an
opposing bottom surface defined by a perimeter wall. An
insulating member is positioned within the perimeter wall.
The insulating member has a first surface facing the bottom
surface of the heat delivering element and a second surface.

2 Claims, 5 Drawing Sheets

